Release notes for ENDF/B Development photoat-046_Pd_000 evaluation



October 13, 2016

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=4600,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=4600, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 157 TO 183

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=4600, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=4600, MF= 1, MT=451
MOD = 3 OUT OF RANGE 0 - 1 RECORD NUMBER 157

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=501 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=501
SECTION 23/501 NOT IN DIRECTORY RECORD NUMBER 185

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=502 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=502
SECTION 23/502 NOT IN DIRECTORY RECORD NUMBER 889

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=504 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=504
SECTION 23/504 NOT IN DIRECTORY RECORD NUMBER 1173

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=515 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=515
SECTION 23/515 NOT IN DIRECTORY RECORD NUMBER 1214

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=516 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=516
SECTION 23/516 NOT IN DIRECTORY RECORD NUMBER 1248

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=517 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=517 SECTION 23/517 NOT IN DIRECTORY

RECORD NUMBER 1300

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4600, MF = 23, MT = 522 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=522 SECTION 23/522 NOT IN DIRECTORY

RECORD NUMBER 1340

1696

9. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=534 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=534

SECTION 23/534 NOT IN DIRECTORY RECORD NUMBER

10. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=4600,\ MF=23,\ MT=535\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=535 SECTION 23/535 NOT IN DIRECTORY

RECORD NUMBER 1719

11. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=536 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=536 SECTION 23/536 NOT IN DIRECTORY

RECORD NUMBER 1746

12. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=537 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=537 SECTION 23/537 NOT IN DIRECTORY

RECORD NUMBER 1773

13. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=538 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=538 SECTION 23/538 NOT IN DIRECTORY

RECORD NUMBER 1801

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=539 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=539 SECTION 23/539 NOT IN DIRECTORY

RECORD NUMBER 1831

15. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=4600,\ MF=23,\ MT=540\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=540 SECTION 23/540 NOT IN DIRECTORY

RECORD NUMBER 1870

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4600, MF = 23, MT = 541 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=541 SECTION 23/541 NOT IN DIRECTORY

RECORD NUMBER 1908

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4600, MF = 23, MT = 542 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=542 SECTION 23/542 NOT IN DIRECTORY

RECORD NUMBER 1960

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4600, MF = 23, MT = 543 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=543 SECTION 23/543 NOT IN DIRECTORY

RECORD NUMBER 2013

19. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4600, MF = 23, MT = 544 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=544 SECTION 23/544 NOT IN DIRECTORY

RECORD NUMBER 2051

20. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=545 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=545 SECTION 23/545 NOT IN DIRECTORY

RECORD NUMBER 2097

21. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=546 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=546

SECTION 23/546 NOT IN DIRECTORY

RECORD NUMBER 2143

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=23, MT=547 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=23, MT=547 SECTION 23/547 NOT IN DIRECTORY

RECORD NUMBER 2211

23. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=4600,\ MF=27,\ MT=502\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=27, MT=502 SECTION 27/502 NOT IN DIRECTORY

RECORD NUMBER 2281

24. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=27, MT=504 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=27, MT=504 SECTION 27/504 NOT IN DIRECTORY

RECORD NUMBER 2334

25. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=27, MT=505 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=27, MT=505 SECTION 27/505 NOT IN DIRECTORY

RECORD NUMBER 2388

26. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4600, MF=27, MT=506 (0): Directory (b)

ERROR(S) FOUND IN MAT=4600, MF=27, MT=506 SECTION 27/506 NOT IN DIRECTORY

RECORD NUMBER 2504

- fudge-4.0 Warnings:
 - 1. generic warning message reaction label 0: Pd + gamma [coherent] / Product: gamma (Error # 0): Warning

WARNING: coherentScattering is not a valid distribution component for 2-body reaction

2. FIXME: Generic fudge unimplemented message reaction label 0: Pd + gamma [coherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for pointwise type data

3. generic warning message reaction label 1: Pd + gamma [incoherent] / Product: gamma (Error # 0): Warning

WARNING: incoherentScattering is not a valid distribution component for 2-body reaction

4. FIXME: Generic fudge unimplemented message reaction label 1: Pd + gamma [incoherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for piecewise type data

5. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 18: total (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 100.00%

6. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 20: photoelectric absorption (Error # 0): Sumrule

- fudge-4.0 Errors:
 - Calculated and tabulated thresholds don't agree reaction label 0: Pd + gamma [coherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

2. 2-body reaction not in center-of-mass frame reaction label 0: Pd + gamma [coherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

3. Calculated and tabulated thresholds don't agree reaction label 1: Pd + gamma [incoherent] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

4. 2-body reaction not in center-of-mass frame reaction label 1: Pd + gamma [incoherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

5. Energy range of data set does not match cross section range reaction label 1: Pd + gamma [incoherent] / Product: gamma / Distribution incoherentScattering - piecewise: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (0.0 -> 1000000000.0) vs (1.0 -> 1e+11)

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2.044e6 eV!

7. Calculated and tabulated thresholds don't agree reaction label 3: e- + e+ + Pd [nuclear field] / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

8. Calculated and tabulated thresholds don't agree reaction label 4: e- + Pd1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 24321. eV!

9. Calculated and tabulated thresholds don't agree reaction label 5: e- + Pd2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3580. eV!

- 10. Calculated and tabulated thresholds don't agree reaction label 6: e- + Pd2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3332.6 eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 7: e- + Pd2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3170.6 eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 8: e- + Pd3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 654.9400000000001 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 9: e- + Pd3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 555.25 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 10: e- + Pd3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 526.8 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 11: e- + Pd3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 348.24 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 12: e- + Pd3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 342.51 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 13: e- + Pd4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 91.0100000000001 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 14: e- + Pd4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 59.68 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 15: e- + Pd4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 55.09 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 16: e- + Pd4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.140000000000001 eV!

- 21. Calculated and tabulated thresholds don't agree reaction label 17: e- + Pd4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.67 eV!
- 22. Calculated and tabulated thresholds don't agree summedReaction label 18: total / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!
- 23. Calculated and tabulated thresholds don't agree $summedReaction\ label\ 19:\ pair\ product\ /\ Cross\ section:\ (Error\ \#\ 0):\ Threshold\ mismatch$
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!
- 24. Calculated and tabulated thresholds don't agree $summedReaction\ label\ 20:\ photoelectric\ absorption\ /\ Cross\ section:\ (Error\ \#\ 0):\ Threshold\ mismatch$

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.67 eV!

- xsectplotter Warnings:
 - 1. Encountered runtime warning in xsect plotter or Fudge or matplotlib Error: Runtime Warning

stderr while processing crossSection

/usr/local/lib/python2.7/site-packages/matplotlib-1.3.1-py2.7-linux-x86_64.egg/matplotlib/pyplot.py:412: Runtime ... [3 more lines]